

SUMMARY OF SUBCOMMITTEE MEETING

DATE: August 20, 2002
TO: Ross Dunfee, Steering Committee Chairman
Tony Barrett, Department of Ecology
COPY: Stormwater Manual Subcommittee Members and Consultant Team
FROM: Jim St. John, DEA & Dave Moss, Tt/KCM
SUBJECT: **Summary of Stormwater Manual Subcommittee Meeting**
Moses Lake Conference Center
August 8, 2002 9:00 am – 3:00 pm
PROJECT: EASTERN WASHINGTON STORMWATER MANAGEMENT
Stormwater Management Technical Manual *and*
Model Municipal NPDES Phase II Stormwater Program

Subcommittee Meeting Attendees:

Jocelyne Gray – JUB Engineers	Nancy Aldrich – City of Richland
Larry Pearson - CRAB	Steve Hansen – City of Spokane
Gary Beeman – WSDOT SCR	Don Gatchalian – Yakima County
Gloria Mantz – Spokane County	Greg Lahti – WSDOT
Gary Nelson – Spokane County	Karen Dinicola – Ecology
Colleen Little – Spokane County	Steve Plummer – Kennewick
John Hohman – Spokane County	Steve Worley – Spokane County
Jim St. John – DEA	Michael Hepp – Ecology
Steve King – City of Wenatchee	Dave Moss – TetraTech/KCM

PURPOSE OF MEETING:

This meeting was held to gather the core subcommittee members and at-large members for:

- Comprehensive review of Chapters 2 and 4
- Review of Chapters 5 & 6
- Discuss Updated Production Schedule

AGENDA FOR THIS MEETING:

1. Brief review of July 25 Meeting
2. Partial review of Chapter 1 – Introduction
3. Review Chapter 2 – Core Elements

4. Look at Chapter 3 in final format
5. Look at Draft Bibliography
6. Review Chapter 4 – Hydrologic Analysis and Design
7. Working lunch (15 minute break)
8. Review Chapter 5 – Detention and Infiltration Design
9. Review Chapter 6 – Water Quality Facility Design
10. Review Manual production schedule
11. Next meeting: date, time and agenda

BRIEF SUMMARY OF PROCEEDINGS:

1. Ross Dunfee held a short pre-meeting for all attendees to discuss the design storm status.
 - A. The Manual will have a "couple of methodologies." There will be a couple of options on storm types.
 - B. Goal is to have 80% complete manual, not 100% perfect.
 - C. Debate has been helpful and healthy.
 - D. Move beyond this issue and work on other issues.
2. Subcommittee introductions; sign-in; review and update the agenda to review chapters in numerical order.
3. Chapter 1 – Introduction
 - A. Ready for review in a week. Will not be reviewed at this meeting.
 - B. Feedback via e-mail and at next meeting.
4. Questions about UIC rule revisions
 - A. Concern about process – no one has been contacted to support Mary Shaleen-Hansen's UIC committee – Karen Dinicola said Mary hasn't begun to coordinate with the committee yet; probably in September.
5. Chapter 2 – Core Elements for Development and Redevelopment
 - A. Dave Moss summarized the concerns about standards and thresholds and the actions that have been taken, including:
 - 1) We slowed down and discussed all comments.
 - 2) Draft Manual will allow options and solicit additional feedback.
 - 3) A Technical Advisory (TA) Working Group was formed for Design Storm Evaluation.
 - 4) A phase-in period is being considered for significant items.
 - B. Gary Nelson assumes text boxes in italics are temporary for draft review – this could cause confusion and lack of clarity for final manual.
 - C. Karen reminded that the Manual will be revised after public review. Second review likely will not have text boxes, then there will be only minor final revisions.
 - D. Need better identification of text boxes – intent to solicit responses.
 - 1) Consider process for soliciting response and simplified method for providing feedback

- 2) Number the “Feedback Requested” text boxes.
 - 3) Provide feedback form with space for input regarding all text boxes.
 - 4) There are 2 types of text boxes – make them look different, using different line types/weights
 - a) Background Information for Reviewers:
 - b) Feedback Requested:
- E. Flow Control/River Exemption
- 1) Steve Hansen and others in the Spokane region thought the Spokane River would be exempt from direct discharge without flow control. Thought this had been agreed to. Post Falls Dam affects river flow dramatically, not stormwater runoff.
 - 2) Karen replied that rivers need hydrologic justification to be exempt.
 - 3) Karen will provide information for developing hydrologic justification criteria. Other areas are interested in this information for rivers such as Yakima and Wenatchee Rivers.
- F. Revise introductory sentence in Chapter 2 to differentiate Core Elements between discharge to surface waters and UIC.
- G. Discussion about new Figure 2A – replaces text on page 2-3.
- H. Discussed replacement of impervious area on page 2-5
- 1) Gary Nelson questioned why 35% replacement triggers redevelopment requirements. This will allow some large sites to avoid requirements. Decided to leave as is for public review draft.
- I. Core Element #5
- 1) Copy text box sentences about new design storm distributions to Core Element #6.
- J. DEA to coordinate with Spokane County to review modeling so results can be replicated.
- 1) Comparison Table will be added to Appendix in Ch. 4 and referred to from Core Element #6.
- K. Discussed “Note to Reviewers” on pg. 2-15.
- 1) Delete Note for water quality design flow rate.
- L. Modify Acceptable Alternative design volume to 0.5 inches runoff from all impervious surfaces that contribute to the treatment facility.
- M. Alternative Method for Flow Based Treatment
- 1) Change Rational Method to 2-year mean recurrence interval. Delete acreage requirement. Do not allow factor to convert to 6-month storm.
- N. Core Element # 6
- 1) Request to modify requirement for Energy dissipation.
- O. Page 2-18
- 1) Revise or move last paragraph
 - 2) Provide introduction to storm options.

P. Page 2-19

1) Discussed possible desire to have flood flows in streams.

Q. Michael Hepp suggested inputting volume for snowmelt – he has seen lots of problems with snowmelt flooding.

R. Delete interim guidelines paragraph on pg. 2-20.

S. Other edits made on the computer to Chapter, during meeting, by Dave Moss.

T. Add intermittent and ephemeral to glossary and clarify exemptions 8 and 9.

6. Technical Advisory (TA) Working Group for Flow Control Standards/Analysis was formed at last meeting to study design storm options and flow control requirements. Members are:

- ◆ Steve King - Committee Chairperson
- Karen Dinicola
- Steve Worley
- Greg Lahti
- Colleen Little
- Paula Cox
- Don Gatchalian.

7. Chapter 4 – Hydrologic Analysis and Design

A. Copy text box re: design storms and options from Ch. 2 Flow Control to Section 4.1.2 – Add note that this is from Chapter 2.

B. Delete caution statement regarding professional engineer requirements.

C. Decided not to discuss modeling results with whole subcommittee; have TA Working Group review it.

D. Clarify ranges in Tables 4-2.6 and 4-2.7 with Mel Schaefer.

E. Other edits were made on the computer during the meeting by Dave Moss.

8. Chapter 5 – Detention and Infiltration Design

A. Discussed adding natural dispersion as a BMP – decided not to – this is exempt per Core Element #6.

B. Discussed minimum orifice size on page 5-20. Most orifices are 1 to 3 inches. Add text box here.

C. Move susceptibility tables to Chapter 6.

D. Incorporate Jim Harakas' comments on 5-33.

1) Allow for geotechnical engineer to vary setback criteria.

E. Jim St. John to get drywell detail from Kennewick – Steve Plummer is contact. Jim to send e-mail requesting drywell details.

9. Chapter 6 – Water Quality Facility Design

A. Doug Busko and Tony B. to work together to have complete version of Chapter 6 by end of next week.

10. Bibliography

- A. Provide 1 at end of document; none in chapters.
- B. Delete superscripts in the text of chapters.
- C. Add additional references used in development of Western Washington Manual where appropriate. Especially for Chapters 5 through 8.

11. Format Review

- A. Reviewed Chapter 3 in “Final” format – generally okay for final draft; (ad DRAFT watermark; TOC).

12. Production Schedule

- A. Next Meeting – review Chapters 1 and 6, then 2 and 4. – Chapters 1 and 6 are priorities.
- B. Next Steps
 - 1) Comment Revisions
 - 2) Technical Editing
 - 3) Formatting
- C. Next Meeting - September 5, 2002 in Moses Lake
- D. Post Chapters 1 and 6 by August 16th, or as close as possible.
 - 1) Request E-mail Comments by 23rd, or one week after posting.

PRELIMINARY AGENDA FOR NEXT MEETING:

The **next meeting** will be at the Moses Lake Conference Center on **September 5, 2002**, from 9am to 3:00pm. The agenda will include:

- Review of Subcommittee agenda and summary from August 8 meeting
- Review Chapters 1 and 6.
- Review edited portions of Chapters 2 and 4.
- Other discussion pertinent to making document ready for public review.
- Discuss support for presentation at CRAB meeting in Richland on September 25 (at 10:15am - 12noon)
- September 26 meeting – Prepare for Public Workshops on October 14, 15, 16 and 17
- PNCWA presentation in Yakima on October 23 (at 8:00am)
- APWA exhibit in Spokane on October 30 and 31 (all day)

<i>The following notes are from the flip charts (created at the meeting) from participant comments:</i>

Comment: instead of flip charts, Dave Moss typed the proposed edits and comments into an electronic version of Chapters 2 & 4, and projected them on the wall for the subcommittee to view during the meeting. One flip chart was used to mention the need and format for text boxes per item 5.D.4) above.